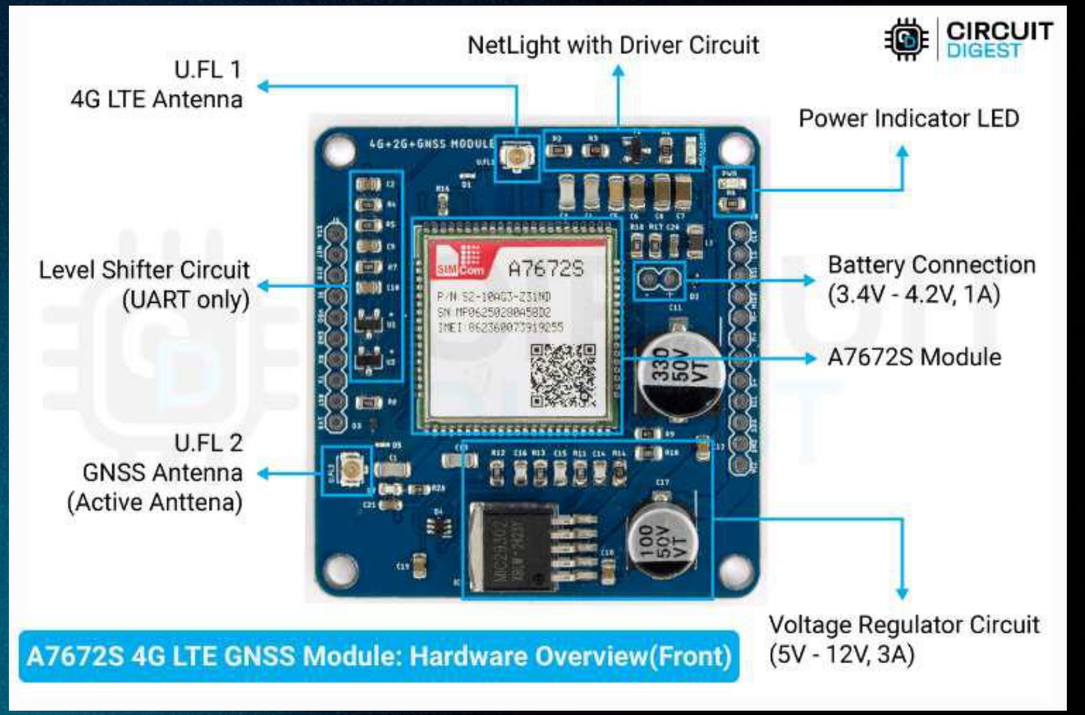
Interfacing A7672S 4G LTE GNSS Module with Arduino

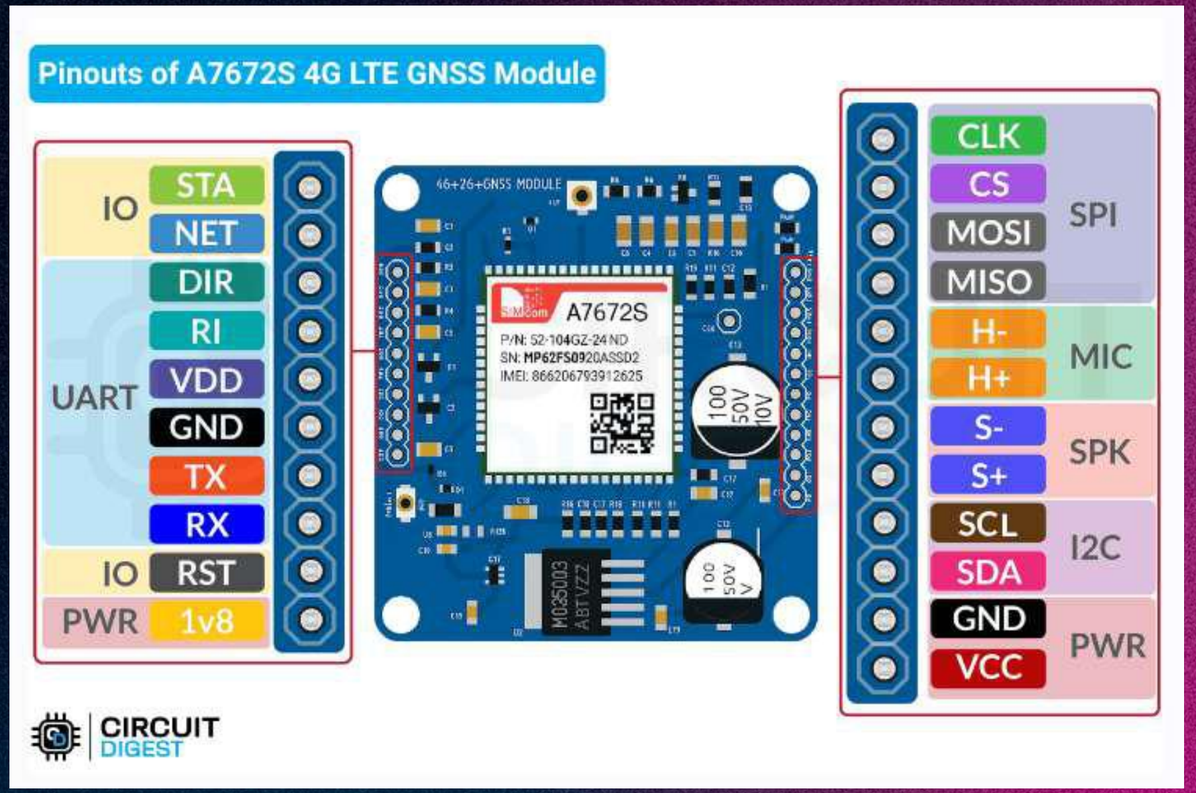
Interfacing the A7672S 4G LTE GNSS Module with Arduino

- A7672S is a powerful module with:
  - 4G LTE Cat-1 connectivity
  - GNSS for GPS tracking
  - Voice, SMS, and internet support
- Great for IoT, asset tracking, and location-based projects.
- In this tutorial, we'll connect it with Arduino and explore core features.



Pinout and Hardware Overview

- Key Pins:
  - VCC: 3.8–4.2V
  - GND: Ground
  - TXD & RXD: UART data lines
- USB interface for firmware updates or PC control
- GNSS antenna, LTE antenna, SIM slot present on breakout board



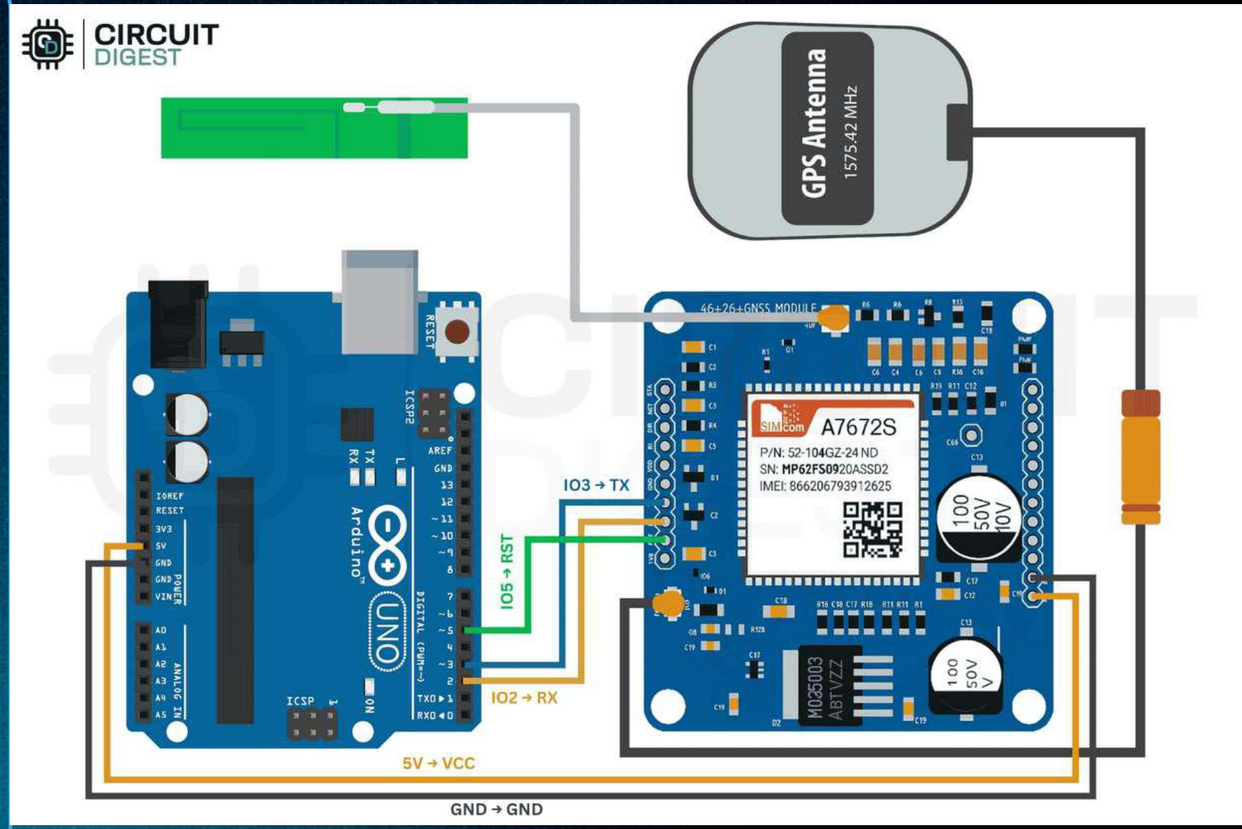
Key Components

Core Components:

- A7672S 4G LTE GNSS Module
- Arduino Uno
- SIM Card (4G Enabled)
- GPS + LTE Antennas
- Breadboard and Jumper Wires
- Logic Level Converter or Voltage Divider
- Power Supply

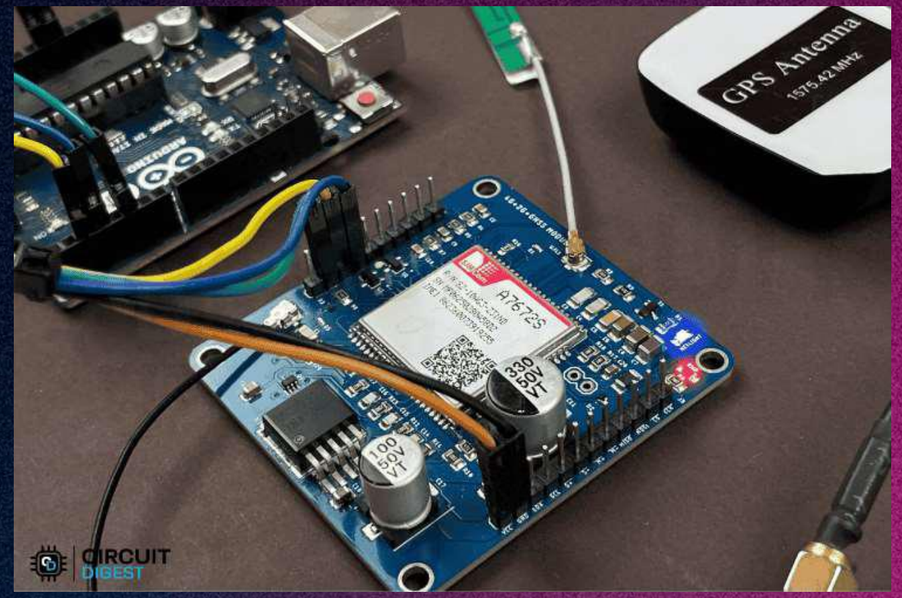
Optional:

- USB to UART Adapter
- Battery Holder
- External LED status/debug)



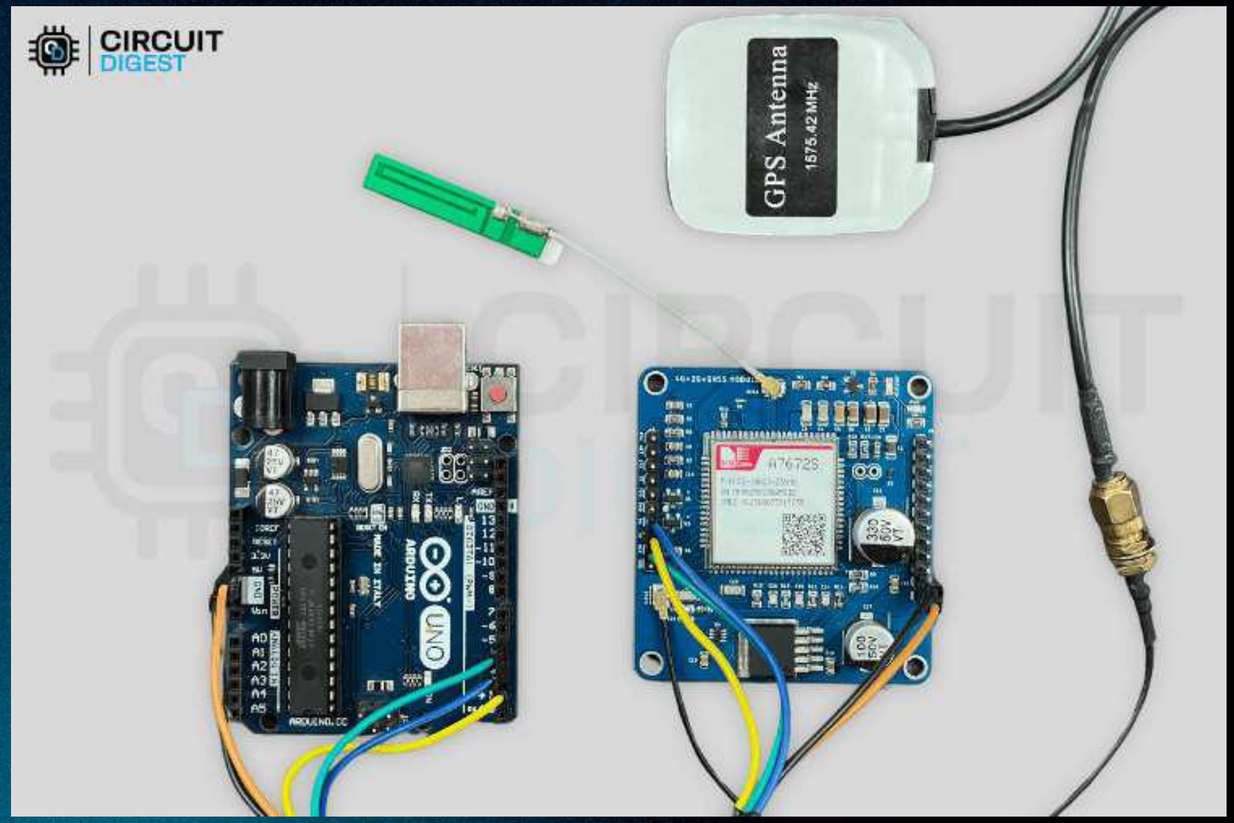
Project Features

- A7672S is a compact, all-in-one solution for 4G + GPS
- Easy to use with Arduino via AT commands
- Expandable for SMS, HTTP, MQTT, and more
- Ideal for learning or deploying IoT tracking systems



Applications

- Real-time GPS tracking devices
- SMS-based alert systems
- IoT projects needing LTE + location
- Remote monitoring with internet upload
- Car/asset tracking, field sensors, safety systems



For a more in-depth tutorial, check out this article:

https://circuitdigest.com/microcontroller-projects/a7672s-arduino-tutorial-4g-lte-gnss-module-guide#a7672s-4g-lte-gnss-module-pinout

CIRCUIT DIGEST